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Title: CN1055185A: WATER-ABSORPTION MATERIAL PRODUCED BY GR  
MODIFICATION WITH CELLULOSE INITIATED BY POTASSIUM  
PERMANGANATE

Derwent Title: Water-absorption material for agriculture and forestry - is prepd. by grafting  
microcrystalline cellulose initiated by potassium permanganate in acidic  
medium NoAbstract [\[Derwent Record\]](#)

Country: CN China  
Kind: A Unexamined APPLIC. open to Public inspection i

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Published / Filed: 1991-10-09 / 1990-03-24

Application Number: CN19909090101692

IPC Code: Advanced: C08F 251/02; D06M 14/04;  
Core: C08F 251/00; D06M 14/00;  
IPC-7: C08F 251/02;

ECLA Code: None

Priority Number: 1990-03-24 CN19909090101692

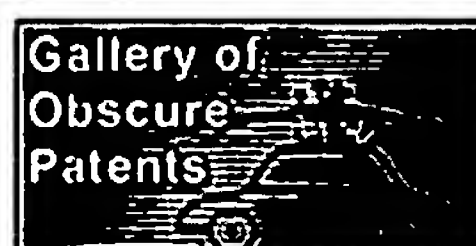
Abstract: The water-absorbent material prepared by graft reaction of  
cellulose with olefine monomers such as acrylonitrile, mostly adopts  
cerium salt as initiator. Although the grafting efficiency is high, but it  
is expensive. This invention provides a method in which potassium  
permanganate is used in acidic medium to replace cerium salt as  
initiator so that a fibrous water-absorbent material can be obtained  
by graft reaction of cotton fibre or artificial fibre, and a powdery  
water-absorbent material is obtained by grafting of microcrystalline  
cellulose. The water-absorbent material provided by this invention  
can quickly absorb non-ionic water by over 20-200 fold, and after  
water abosrption it has a high gelatinating strength, not liable to  
break, and a strong water-retaining capacity. It is suitable for water-  
retaining agent in agriculture and forestry, as well as for sanitary  
material.

Family:

Buy PDF	Publication	Pub. Date	Filed	Title
				WATER-ABSORPTION MATERIAL PROD

<input checked="" type="checkbox"/>	CN1055185A	1991-10-09	1990-03-24	GRAFT MODIFICATION WITH CELLULOSE INITIATED BY POTASSIUM PERMANGAN
1 family members shown above				

Other Abstract Info: None



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